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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/077,969	02/20/2002	Nitzan Arazi	2098/10 3801		
7:	590 06/02/2003				
	RIEDMAN LTD.	EXAMINER			
c/o Bill Polking Discovery Disp 9003 Florin Wa	atch		GARY, ERIKA A		
Upper Marlboro, MD 20772			ART UNIT	PAPER NUMBER	
		•	2681	S	
		DATE MAILED: 06/02/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

	-3.			54			
,		Applicat	on No.	Applicant(s)			
	,	10/077,9	69	ARAZI ET AL.			
	Office Action Summary	Examine	r	Art Unit			
		Erika A. (Gary	2681			
Period fo	The MAILING DATE of this commu or Reply	nication appears on th	e cover sheet with the c	correspondence address			
THE I - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN isions of time may be available under the provisior SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty period for reply is specified above, the maximum reto reply within the set or extended period for repeply received by the Office later than three months dipatent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). In no enterior in the state of the s	vent, however, may a reply be tin tutory minimum of thirty (30) day vill expire SIX (6) MONTHS from blication to become ABANDONE	nely filed rs will be considered timely. I the mailing date of this communication. CD (35 U.S.C. § 133).			
1)[🛛	Responsive to communication(s)	filed on <u>20 February 2</u>	<u>002</u> .				
2a) <u></u>	This action is FINAL.	2b)⊠ This action is	s non-final.				
3)□	Since this application is in condition	on for allowance exce	ot for formal matters, p	rosecution as to the merits is			
Dispositi	closed in accordance with the pra on of Claims	ctice under <i>Ex parte</i> (Quayle, 1935 C.D. 11, 4	453 O.G. 213.			
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-10</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.						
	Claim(s) are subject to restr	iction and/or election	requirement.				
	on Papers						
	The specification is objected to by the	_					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
44)[7] -	Applicant may not request that any of	-	· -	, ,			
11)[_]	The proposed drawing correction file			oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
	nder 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) 🗌 A	cknowledgment is made of a claim	for domestic priority u	nder 35 U.S.C. § 119(e) (to a provisional application).			
	☐ The translation of the foreign lacknowledgment is made of a claim		•				
Attachment		, 3					
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449)	(PTO-948) Paper No(s) <u>4</u> .	4) Interview Summary 5) Notice of Informal I 6) Other:	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
J.S. Patent and Tr PTO-326 (Re		Office Action Summ	ary	Part of Paper No. 5			

Art Unit: 2681

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The preamble of the claims states "a method of detecting the presence of a specific mobile unit", however, this specific mobile unit or the detecting of it is not discussed in the rest of the claim.

Claim 9 recites the limitation "the switch" in line 2 of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haartsen, US Patent Number 6,009,332 (hereinafter Haartsen A) in view of Haartsen, US Patent Number 6,490,446 (hereinafter Haartsen B).

Art Unit: 2681

Regarding claim 1, Haartsen A discloses in a wireless communication system comprising a base station connected with a mobile unit, a method of detecting the presence of a mobile unit in a coverage area of at least one neighboring base station [fig. 1; col. 10: lines 42-46]. What Haartsen A does not specifically disclose are the following steps typically initiated before a handoff wherein the mobile unit is detected in the coverage area of a neighboring base station. However, Haartsen B teaches these limitations.

Haartsen B discloses the base station connected with the mobile unit provides, to the at least one neighboring base station, information about the connection with the mobile unit, including rough TOD and a device address for the mobile unit [col. 2: lines 48-53; col. 3: lines 25-28; col. 5: line 66 – col. 6: line 6]; at the at least one neighboring base station, receiving information and generating a list of frequencies in which the mobile unit is likely to transmit; and at the at least one neighboring base station, checking for a signal transmitted by the mobile unit [col. 4: lines 50-54].

Haartsen A and Haartsen B are combinable because they are from the same field of endeavor, that is, frequency hopping in a cellular system. At the time of the invention, it obvious to one of ordinary skill in the art to modify Haartsen A to include Haartsen B as Haartsen B shows typical steps conducted before handoff and to detect a mobile station in a coverage area.

Regarding claim 2, Haartsen A discloses at the neighboring base station, monitoring frequencies that are not blocked by interferences [col. 9: lines 13-22].

Art Unit: 2681

Regarding claim 3, Haartsen A discloses for each frequency that is monitored, maintaining a histogram of a number of hops that have been detected in a certain duration of time, and their average signal-to-noise ratios [col. 4: lines 23-54; col. 13: lines 44-49].

Regarding claim 4, Haartsen A discloses determining a measure of spectral cleanness of a frequency being monitored as a function of signal-to-noise (SNRs) of the hops [col. 9: lines 34-59].

Regarding claim 5, Haartsen A discloses monitoring a group (M) of frequencies that have a best cleanness measure most of the time [col. 12: lines 49-67].

Regarding claim 6, it is inherent to periodically monitor a frequency which is not in the group of frequencies having the best cleanness measure in order to perform updated measurements to determine if better frequencies are available.

Regarding claim 7, Haartsen A discloses the mobile unit is a device selected from the group consisting of: telephone handset, standard cordless telephone handset, cellular telephone handset, personal data device, personal digital assistant (PDA), computer, laptop computer, email server, a device utilizing point-to-point protocol (PPP) to the Internet via a central remote access server, a headset, a personal server, a wearable computer, a wireless camera, and a mobile music player [col. 6: lines 17-21].

Regarding claim 8, Haartsen A discloses providing communication links between the base stations, wherein the communication links between the base stations are selected from the group consisting of RF links and a land lines; and transferring

stations over the communication links [col. 8: lines 11-14].

Art Unit: 2681

connection status information and rough synchronization information between the base

Regarding claim 9, it is inherent for base stations and a switch to be connected via a wired or wireless local area network (LAN).

Regarding claim 10, it would have been obvious for the wireless communication system to comprise a wireless private branch exchange (WPBX) handling calls from mobile units comprising handsets since Haartsen A discloses a PABX [col. 6: lines 11-13].

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erika A. Gary whose telephone number is 703-308-0123. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on 703-305-4778. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750 or to the 2600 Customer Service Office at 703-306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Page 5

Application/Control Number: 10/077,969 Page 6

Art Unit: 2681

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for informal or draft communications, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive Arlington, VA., Sixth Floor (Receptionist).

ERIKA GARY

EAG May 30, 2003